505353793 03/01/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5400578

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LAURENTIUS JOHANNES ADRIANUS VAN BOKHOVEN	01/04/2016
RUUD HENDRIKUS MARTINUS JOHANNES BLOKS	12/18/2015
GUNES NAKIBOGLU	12/18/2015
MARINUS JAN REMIE	01/05/2016
JOHAN GERTRUDIS CORNELIS KUNNEN	12/18/2015

RECEIVING PARTY DATA

Name:	ASML NETHERLANDS B.V.
Street Address:	DE RUN 6501
City:	VELDHOVEN
State/Country:	NETHERLANDS
Postal Code:	NL-5504 DR

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16289875

CORRESPONDENCE DATA

Fax Number: (703)770-7901

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 703-770-7900

Email: docket_ip@pillsburylaw.com, barbie.beavers@pillsburylaw.com

Correspondent Name: PILLSBURY WINTHROP SHAW PITTMAN, LLP

PO BOX 10500 Address Line 1:

Address Line 4: MCLEAN, VIRGINIA 22102

ATTORNEY DOCKET NUMBER:	081468-0503536
NAME OF SUBMITTER:	BARBIE BEAVERS
SIGNATURE:	/barbie beavers/
DATE SIGNED:	03/01/2019

Total Attachments: 4

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PATENT REEL: 048479 FRAME: 0748

ASSIGNMENT

in consideration of good and valuable consideration received by the ASSIGNOR(s), namely:

NAME(S) OF	(1)	Laurentius, Johannes, Adrianus VAN BOKHOVEN	(2)	Ruud, Hendrikus, Martinus, Johannes BLOKS
ASSIGNOR(S)	(3)	Günes NAKIBOGLU	(4)	Marinus, Jan REMIE
	(5)	Johan, Gertrudis, Cornelis KUNNEN	(6)	

the receipt and sufficiency of which are acknowledged by the ASSIGNOR(s), the ASSIGNOR(s) hereby sell(s), assign(s) and transfer(s) unto:

NAME OF ASSIGNEE and ADDRESS

ASML Netherlands B.V.	
De Run 6501	
NL-5504 DR Veldhoven	
The Netherlands	

its or their successors, assigns and legal representatives (together and individually hereinafter "ASSIGNEE") and to the extent already assigned or transferred to ASSIGNEE by operation of law or by a general obligation between the ASSIGNOR(s) and ASSIGNEE, the ASSIGNOR(s) hereby confirm(s) and formalize(s) the assignment and transfer to ASSIGNEE of, the entire and exclusive right, title and interest for all countries, regions, territories, and other jurisdictions throughout the world, in, to and under the invention(s), improvements thereof, and all patent applications, provisional and non-provisional, (including without limitation all patent applications claiming priority and/or benefit, including without limitation all divisional, continuation, continuation-in-part, substitute, renewal and relessue applications), patents (including without limitation extensions, relessues and renewals thereof), and other intellectual property protection (including without limitation all utility medels, designs and inventor certificates, and applications, extensions, renewals and relessues for the same) therefore, together with, though not in any way of limitation, all rights of priority under the International Convention for the Protection of Industrial Property and all other laws and international agreements, the right to apply for patents in ASSIGNEE's name(s), and all rights of recovery for past, present or future infringement thereof, known as

TITLE	OF TH	C
INVEN	TION	

	Country	Date	Country abbreviation	Application number	***********
	Europe	December 17, 2015	E P	15200652.4	
	for which a patent a	application was executed and/or fi	led for:		
: ::	PATTERNING DEVICE COOLING APPARATUS				

AND the ASSIGNOR(s) hereby authorize(s) and request(s) any government agency, office or official whose duty includes issuing patents or other evidence or forms of intellectual property protection on or for the aforesaid invention(s) and application(s) (including, without limitation, all applications filed in or for China, Europe, Japan, Korea, the Netherlands, United Kingdom, Germany, France, Italy, Taiwan, Singapore and the United States), to issue the same to ASSIGNEE, as the assignee(s) of all rights, title, interests thereto and/or as the applicant(s) therefore;

AND the ASSIGNOR(s) agree(s) that the attorney of record in the aforesaid application(s) shall hereinafter act on behalf of ASSIGNEE;

AND the ASSIGNOR(s) acknowledge(s) that the aforesald invention(s) was/were made in the framework of a specific relationship to ASSIGNEE and that in this relationship the ASSIGNOR(s) is/are bound to use specific knowledge to create inventions similar to the aforesald invention(s);

AND the ASSIGNOR(s) acknowledge(s) that the ASSIGNOR(s)'s salary or other remuneration includes fair and reasonable compensation for the assignment hereunder of the subject matter herein assigned;

AND the ASSIGNOR(s) agree(s), without further remuneration, to communicate to ASSIGNEE any facts known to the ASSIGNOR(s) respecting the aforesaid invention(s), and all related patent applications, patents, and other intellectual property protection mentioned above, and to testify in any legal proceeding, sign any lawful papers, execute any applications, make any rightful oaths or declarations, and generally provide all assistance, cooperation and information reasonably necessary for ASSIGNEE to perfect title in, prepare, complete, prosecute, obtain, maintain, preserve, enforce and/or defend the aforesaid invention(s) and all related patent applications, patents and other intellectual property protection mentioned above, and grant(s) ASSIGNEE a perpetual and irrevocable power of attorney to execute and sign in the name(s) and on behalf of the ASSIGNOR(s) any documents of any nature in pursuit of the aforesaid;

AND the ASSIGNOR(s) agree(s) not to contest or aid in contesting the validity, enforceability or ownership of the aforesaid invention(s) and all related patent applications, patents, and other intellectual property protection mentioned above;

AND the ASSIGNOR(s) represent(s) and warrant(s) to have the full right to convey the subject matter herein assigned, to have obtained the consent, if applicable, of all joint owners and all inventors to the subject matter assigned herein, to have not made and will not make any agreement or license in conflict herewith, and to have not encumbered and will not encumber by any grant, license or right the subject matter herein assigned;

AND the ASSIGNOR(s) has/have not disclosed and will not disclose the aforesaid invention(s) to any third party, except with the prior written consent of ASSIGNEE, prior to the date of earliest publication of the aforesaid application(s);

AND the ASSIGNOR(s) hereby authorize(s) any attorneys or other representatives of ASSIGNEE to insert hereon any further

identification necessary or desirable for recordation of this document, including without limitation any applicable patent or patent application number:

AND, to the extent there is a conflict between the agreement herein and any previous agreement between ASSIGNEE and any or all of the ASSIGNOR(s), the ASSIGNOR(s) agree(s) that the agreement herein controls and supersedes any such conflicting previous agreement;

AND, where permitted by law, the ASSIGNOR(s) agree(s) that the agreement herein supersedes, modifies and/or supplements the law to the extent the agreement herein provides ASSIGNEE greater rights and protections than available under the law;

AND the ASSIGNOR(s) and ASSIGNEE irrevocably waive their rights to rescind the agreement herein, including, without limitation, on the basis of article 6: 285, 265, or 270 of the Dutch Civil Code;

AND the ASSIGNOR(s) agree(s) that the agreement herein shall be exclusively construed under and governed by the laws of the Netherlands with the exclusion of conflicts of law rules;

AND the ASSIGNOR(s) agree(s) that any dispute arising from or in relation to the agreement herein shall be submitted to the exclusive jurisdiction and venue of the competent court in 's-Hertogenbosch, the Netherlands, unless ASSIGNEE in its sole discretion prefer(s) to submit such dispute to an arbitration, whereby the arbitral tribunal shall be composed of one arbitrator, the place of arbitration shall be within the Netherlands, and the arbitral procedure shall be conducted in the English language;

AND the ASSIGNOR(s) and ASSIGNEE agree that if any provision of the agreement herein is deemed to be unenforceable, void, illegal or invalid, it shall be modified so as to make it valid and enforceable, and as so modified the agreement herein shall remain in full force and effect.

	ASSIGNOR(S)	DATE SIGNED
1): Name:	Laurentius, Johannes, Adrianus VAN BOKHOVEN	<u>4 - 1- 2016</u> Date
2):		
Name:	Ruud, Hendrikus, Martinus, Johannes BLOKS	Date
3):		
Name:	Günes NAKIBOGLU	Date
4): Name	Marinus, Jan REMIE	5-1-2016 Date
5):		
Name:	Johan, Gertrudis, Cornelis KUNNEN	Date
	ASSIGNEE	DATE SIGNED
Company: Signor	ASML Netherlands B.V. Antonius J.M. van Hoef	Date

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	ASSIGNOR(S)	DATE SIGNED
1):	er en tradición de la companya de l No companya de la co	
Name:	Laurentius, Johannes, Adrianus VAN BOKHOVEN	Date
2):		
Name:	Ruud, Hendrikus, Martinus, Johannes BLOKS	Date
3):	LNOUN	O manual about 12 rates
Name:	Günes NAKIBOGLU	<u>December 185,2015</u> Date
4):		
Name:	Marinus, Jan REMIE	Date
5):		
Name:	Johan, Gertrudis, Cornelis KUNNEN	Date
	La Company (TEX)	THE RESIDENCE OF THE PROPERTY
	ASSIGNEE	DATE SIGNED
		Mark and describe the second control of the particle and the same
Company:	ASML Netherlands B.V.	Date
Signor Name:	Antonius J.M. van Hoef Vice President and Chief IP Counsel	

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ASSIGNOR(S)

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DATE SIGNED

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1):		
Name:	Laurentius, Johannes, Adrianus VAN BOKHOVEN	Date
2):	Blild	18-12-2015
Name:	Ruน์d, Hendrikus, Martinus, Johannes BLOKS	Date
3):		
Name:	Günes NAKIBOGLU	Date
4):		
Name:	Marinus, Jan REMIE	Date
5):	Johan Gunnen	18-12-2015
Name:	Johan, Gertrudis, Cornells KUNNEN	Date
	ASSIGNEE	DATE SIGNED
	AMI	so A C C COC No A AND X No Go
Company:	ASML Netherlands B.V.	<u>19 78-1V 16</u> Date
Signor	Antonius J.M. van Hoef	Date
Name:	Vice President and Chief IP Counsel	

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